

What is claimed is:

1. A door assembly for an image forming apparatus comprising:

a door;

a first mount and a second mount being spaced apart and attached to the
5 door, the first mount having a post and a cap with the post extending outward
from the door and the cap spaced from the door and extending outward beyond
the post; the second mount having opposing fingers extending outward from the
door and forming a channel; and

a cartridge having a photoconductive member and being connected to the
10 door by the pair of mounts, the cartridge comprising a first attachment
mechanism having a slot with a slot width greater than a width of the post and
less than a cap width, and a second attachment mechanism having a neck that
seats within the second mount as a neck width is less than a width of the
channel.

15
2. The assembly of claim 1, wherein the door includes a pivot adjacent to a
lower edge to be positionable relative to the image forming apparatus between
an open orientation with an upper edge spaced from the image forming
apparatus, and a closed orientation with the upper edge adjacent to the image
20 forming apparatus.

3. The assembly of claim 1, wherein the photoconductive member has a toner
transfer section and the first attachment mechanism is positioned beyond a first
edge of the toner transfer section and the second attachment mechanism is
25 positioned beyond a second edge of the toner transfer section with the first
attachment mechanism spaced on an opposite side of the cartridge from the
second attachment mechanism.

4. The assembly of claim 1, wherein the cartridge further comprises a charger
30 for electrically charging the photoconductive member.

5. The assembly of claim 1, wherein the slot is aligned with a centerline of the photoconductive member.

6. The assembly of claim 1, further comprising a head positioned on an outer
5 side of the neck away from the photoconductive member, the head having a width greater than the channel width.

7. The assembly of claim 1, wherein the first mount is substantially T-shaped.

10 8. The assembly of claim 1, wherein the cap is positioned at a distal end of the post.

9. The assembly of claim 1, wherein the opposing fingers each have a curved
15 orientation that forms an opening between the channel and door with a width of the opening being greater than the channel width.

10. The assembly of claim 9, wherein the channel is formed by distal ends of the opposing fingers.

20

11. A door assembly for an image forming apparatus comprising:

a door;

a cartridge with a photoconductive member and having a first attachment and a second attachment to attach the cartridge to the door;

5 a first mount positioned on the door and having a first configuration to receive the first attachment; and

a second mount positioned on the door and having a second configuration to receive the second attachment, the first configuration and the second configuration being different such that only the first attachment can attach to the
10 first mount and only the second attachment can attach to the second mount.

12. The assembly of claim 11, wherein the cartridge has a first side and a second side, the first side is mounted above the second side relative to the door when the first attachment is mounted to the first mount and the second
15 attachment is mounted to the second mount.

13. The assembly of claim 11, wherein the first mount and the second mount each extend outward from the door, and the first attachment is aligned along a first dimensional plane and the second attachment is aligned along a second
20 dimensional plane that is substantially perpendicular to the first dimensional plane.

14. A door assembly for an image forming apparatus comprising:

a door;

a plurality of first mounts spaced along a first edge of the door, each of the plurality of first mounts having a post and a cap with the post extending outward from the door and the cap spaced from the door and extending outward beyond a width of the post;

a plurality the second mounts spaced along a second edge of the door opposite from the first edge, each of the plurality of second mounts having opposing fingers extending outward from the door and forming a channel; and

a plurality of cartridges each removably attached to the door, each of the plurality of cartridges having a photoconductive member, a first attachment mechanism having a slot with a slot width greater than a post width and less than a cap width, and a second attachment mechanism having a neck that seats within the second mount as a neck width is less than a width of the channel.

15. The device of claim 14, wherein the plurality of cartridges comprises a first cartridge having black toner, a second cartridge having cyan toner, a third cartridge having magenta toner, and a fourth cartridge having yellow toner.

16. A cartridge for an image forming device having a first end with a first attachment with a pair of spaced-apart fingers forming a slot, and a second end with a second attachment with a neck and a head, the head positioned on an outer side of the neck away from the first end, and the neck having a smaller width than the head.

17. The device of claim 16, further comprising a photoconductive member positioned between the first attachment and the second attachment.

18. The device of claim 17, further comprising a charger positioned between the first attachment and the second attachment to electrically charge the photoconductive member.

19. A cartridge for an image forming device comprising:

a photoconductive member having a first end and a second end;
a first attachment mechanism positioned adjacent to the first end and having a slot extending inward a predetermined distance from an outer edge, and a second attachment mechanism positioned adjacent to the second end and having a neck and a head, the head positioned on an outer side of the neck away and having a smaller width than the head.

20. The cartridge of claim 19, wherein the photoconductive member is a drum having a hollow interior.

21. The cartridge of claim 19, wherein the neck and the head are co-axially aligned with the photoconductive member.

22. A method of mounting a cartridge assembly to a door of an image forming apparatus, the method comprising the steps of:

moving the cartridge in a horizontal direction and attaching a first end of the cartridge to the door;

5 while the first end remains attached, moving the cartridge in a vertical direction and attaching a second end of the cartridge to the door; and

moving the door from an open orientation to a closed orientation and maintaining the attachment of the cartridge to the door.

10 23. The method of claim 22, wherein the step of moving the door from the open orientation to the closed orientation comprises pivoting the door along a pivot on a lower edge of the door.

15 24. The method of claim 22, further comprising preventing the first end of the cartridge from moving while the second end of the cartridge is attached.

25. A method of mounting a cartridge assembly to a door of an image forming apparatus, the method comprising the steps of:

attaching a slot on a first end of the cartridge to a T-shaped member on a first door side;

5 attaching a neck on a second end of the cartridge in a channel formed between two fingers on a second door side; and

positioning the photoconductive member within a working area of the door between the first door side and the second door side.

10 26. The method of claim 25, wherein the step of positioning the photoconductive member within a working area comprises aligning the photoconductive member with a transfer belt on the door.

15 27. The method of claim 25, further comprising moving the first end of the cartridge substantially parallel to the door to attach the slot to the T-shaped member, and moving the second end of the cartridge substantially perpendicular to door to attach the neck to the channel.

20